

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A device which is provided with a piezoelectric transducer for driving a liquid drop ejecting head for ejecting a functional liquid by using the piezoelectric transducer comprising:

a memory ~~which corresponds to each address space:~~with corresponding address spaces;

a controlling section for memorizing an information which relates to an inclination value of a plurality of different line-segmented-waveforms in the memory, reading out the information which relates to the inclination value of line-segmented-waveform from the corresponding memory according to a predetermined readout timing, forming the line-segmented-waveform according to the information which relates to the inclination value, and generating a driving waveform by combining the ~~line-segmented-waveforms:~~line-segmented-waveforms; and

a driving section for driving the piezoelectric transducer by the driving waveform and ejecting a liquid drop from an ejecting section on the liquid drop ejecting head,

wherein the information which relates to the inclination value contains information for a variation amount of voltage of the line-segmented-waveform per a unit ~~interval;~~interval, a plurality of different information for the variation amount of voltage correspond ~~to the line-segmented-waveform;~~line-segmented-waveform, and a plurality of the different information for the variation amount of voltage are stored in ~~each~~the memory.

2. (Currently Amended) A device which is provided with a piezoelectric transducer for driving a liquid drop ejecting head for ejecting a functional liquid by using the piezoelectric transducer comprising:

an output section which outputs information which relates to a plurality of different inclination values of ~~the~~ a line-segmented-waveform;

a controlling section for forming the line-segmented-waveform according to the information which relates to the inclination value which is outputted from the output section and generating a driving waveform by combining ~~the~~ line-segmented-waveforms; and

a driving section for driving the piezoelectric transducer by the driving waveform and ejecting a liquid drop from an ejecting section on the liquid drop ejecting head,

wherein the output section outputs information which relates to the inclination value which contains information for the variation amount of voltage of the line-segmented-waveform per a unit interval such that a plurality of different information for the variation amount of voltage correspond to the line-segmented-waveform.

3. (Currently Amended) A driving device for a liquid drop ejecting head according to Claim 1 wherein the line-segmented-waveform ~~are~~ is formed by waveforms of which variation amount of voltage becomes smaller nearer an end section of the driving waveform.

4. (Original) A driving device for a liquid drop ejecting head according to Claim 1 wherein the driving waveform contains an ejection waveform for ejecting the liquid drop and a micro-vibration waveform for causing a micro-vibration on the piezoelectric transducer such that the liquid drop is not ejected.

5. (Currently Amended) A device for forming a membrane ~~which is~~ comprising a driving device for the liquid drop ejecting head according to Claim 1 for forming a membrane on an object by ejecting a functional liquid from the liquid drop ejecting head.

6. (Original) A device for forming a membrane according to Claim 5 wherein the device for forming a membrane manufactures a color filter.

7. (Original) A device for forming a membrane according to Claim 5 wherein the device for forming a membrane manufactures a membrane which becomes a part of an organic electro-luminescent element.

8. (Currently Amended) A method for driving a liquid drop ejecting head for ejecting a functional liquid comprising steps of:

storing information which relates to an inclination value of a plurality of different line-segmented-waveforms in a memory ~~which corresponds to each with~~ corresponding address-space; spaces;

reading out the information of the inclination value of the line-segmented-waveform from the corresponding memory address space according to a predetermined readout timing when the address space is designated;

forming a line-segmented-waveform according to the information which relates to the inclination value;

generating a driving waveform by combining ~~the~~ line-segmented-waveforms;
and

driving ~~the~~ a piezoelectric transducer by the driving waveform and ~~eject~~ ejecting the liquid drop from a ejecting section,

_____ wherein the information which relates to the inclination value contains information for a variation amount of voltage of the line-segmented-waveform per a unit ~~interval; interval,~~ a plurality of different information for the variation amount of voltage correspond the ~~line-segmented-waveform; line-segmented-waveform,~~ and a plurality of the different information for the variation amount of voltage are stored in each memory.

9. (Currently Amended) A method for driving a liquid drop ejecting head for ejecting a functional liquid comprising the steps of:

~~putting out~~ outputting from an output section an information of a plurality of different inclination values of a line-segmented-waveform;

forming the line-segmented-waveform according to the information of the inclination values which are outputted from the output section;

generating a driving waveform by combining ~~the~~ line-segmented-waveforms;

driving ~~the~~ a piezoelectric transducer by the driving waveform; and

ejecting a liquid drop from the ejecting section on the liquid drop ejecting head; head,

wherein the information which relates to the inclination value contains information for a variation amount of voltage of the line-segmented-waveform per a unit ~~interval; interval, and~~ a plurality of different information for the variation amount of voltage correspond the line-segmented-waveform.

10. (Original) A method for driving a liquid drop ejecting head according to Claim 8 wherein the line-segmented-waveform is formed by waveforms of which variation amount of voltage becomes smaller nearer an end section of the line-segmented-waveform.

11. (Original) A method for driving a liquid drop ejecting head according to Claim 8 wherein the driving waveform contains an ejection waveform for ejecting the liquid drop and a micro-vibration waveform for causing a micro-vibration on the piezoelectric transducer such that the liquid drop is not ejected.

12. (Original) A method for forming a membrane by using a method for driving a liquid drop ejecting head according to Claim 8.

13. (Currently Amended) A method for forming a membrane according to Claim 12 wherein which is used for manufacturing a membrane which becomes a part of a color filter.

14. (Original) A method for forming a membrane according to Claim 12 which is used for forming a membrane which becomes a part of an organic electro-luminescent element.

15. (Currently Amended) ~~An electronic apparatus which is provided with a device which is manufactured by a~~ A method for forming a membrane according to Claim 12. Claim 12 which is used for forming a membrane which becomes a part of an electronic apparatus.

16. (Previously Presented) A method for manufacturing a device by forming a functional liquid on a predetermined position of a base board by using a method for driving a liquid drop ejecting head according to Claim 8.

17. (Previously Presented) A method for manufacturing a device by forming a functional liquid on a predetermined position of a base board by using a method for driving a liquid drop ejecting head according to Claim 9.

18. (Previously Presented) A method for manufacturing a device by forming a functional liquid on a predetermined position of a base board by using a method for driving a liquid drop ejecting head according to Claim 10.

19. (Previously Presented) A method for manufacturing a device by forming a functional liquid on a predetermined position of a base board by using a method for driving a liquid drop ejecting head according to Claim 11.